

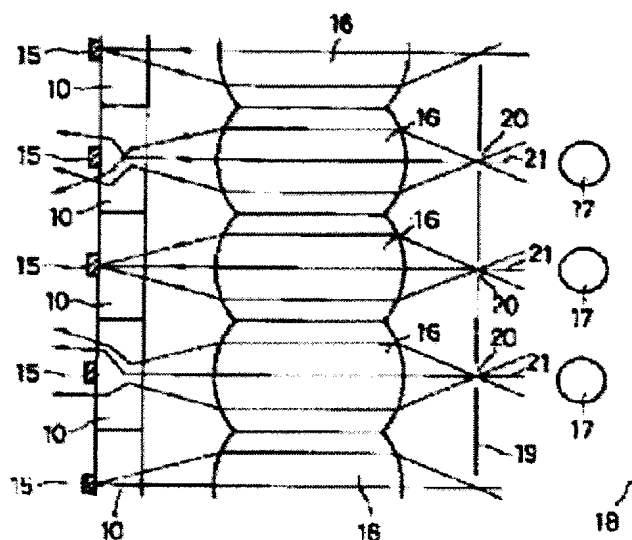
**LIQUID CRYSTAL DISPLAY DEVICE****Publication number:** JP5027228**Publication date:** 1993-02-05**Inventor:** KOMURA SHINICHI; MORI YUJI; HIYAMA IKUO**Applicant:** HITACHI LTD**Classification:****- International:** G02F1/1333; G02F1/1335; G02F1/13357; G09F9/35; G02F1/13; G09F9/35; (IPC1-7): G02F1/1333; G02F1/1335; G09F9/35**- European:****Application number:** JP19910204535 19910722**Priority number(s):** JP19910204535 19910722

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**Abstract of JP5027228**

**PURPOSE:** To provide a liquid crystal display device which has a wide angle and can realize high contrast characteristics, on a liquid crystal display device making use of the transmitting/scattering properties of the light of a liquid crystal element.

**CONSTITUTION:** The liquid crystal display device is composed of a pair of transparent substrates, the liquid crystal element 10 disposed between a pair of substrates and obtaining optical transparent and scattered states according to a voltage applied between these substrates, light shielding film 15 provided on one of the substrates at every picture elements, an optical system 16 sequentially arranged in the rear of the other substrate, a reflecting plate 19 with a light transmission hole 20 provided on each picture element, and a light source 17. When the liquid crystal element 10 is in the transparent state, the light from the light transmission hole 20 is converged on the light shielding film 15, and when the element 10 is in the scattered state, the light is dispersed and transmitted.



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